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(54) RANEY COPPER CATALYST CONTAINING NICKEL AND MOLYBDENUM AND
MANUFACTURE OF AMINOCARBOXYLIC ACID USING THE CATALYST

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a catalyst containing copper capable of maintaining a stable activity for a long period of time by eluting aluminum from a catalyst prepared by mixing and melting a copper-aluminum alloy, a nickel - aluminum alloy and a molybdenum-aluminum alloy.

SOLUTION: This Raney copper catalyst is capable of manufacturing an aminocarboxylic acid with an economic advantage and the production of almost no byproduct, at high yield and high selectivity, when the catalyst is used for a chemical reaction in manufacturing an aminocarboxylic acid from an aminoalcohol, and contains nickel and molybdenum. In addition, this catalyst is obtained by eluting aluminum from a copper-aluminum-nickel-molybdenum alloy prepared by mixing and melting a copper-aluminum alloy, a nickel - aluminum alloy and a molybdenum-aluminum alloy. In this case, the nickel content based on the whole catalyst weight is 0.1-10wt.% and the molybdenum content based on the whole catalyst weight is 20-10000ppm.

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